

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P593350

Luminaire Tested: **HCC6W50D010BZ-HM64560850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W50D010BZ-HM64560850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

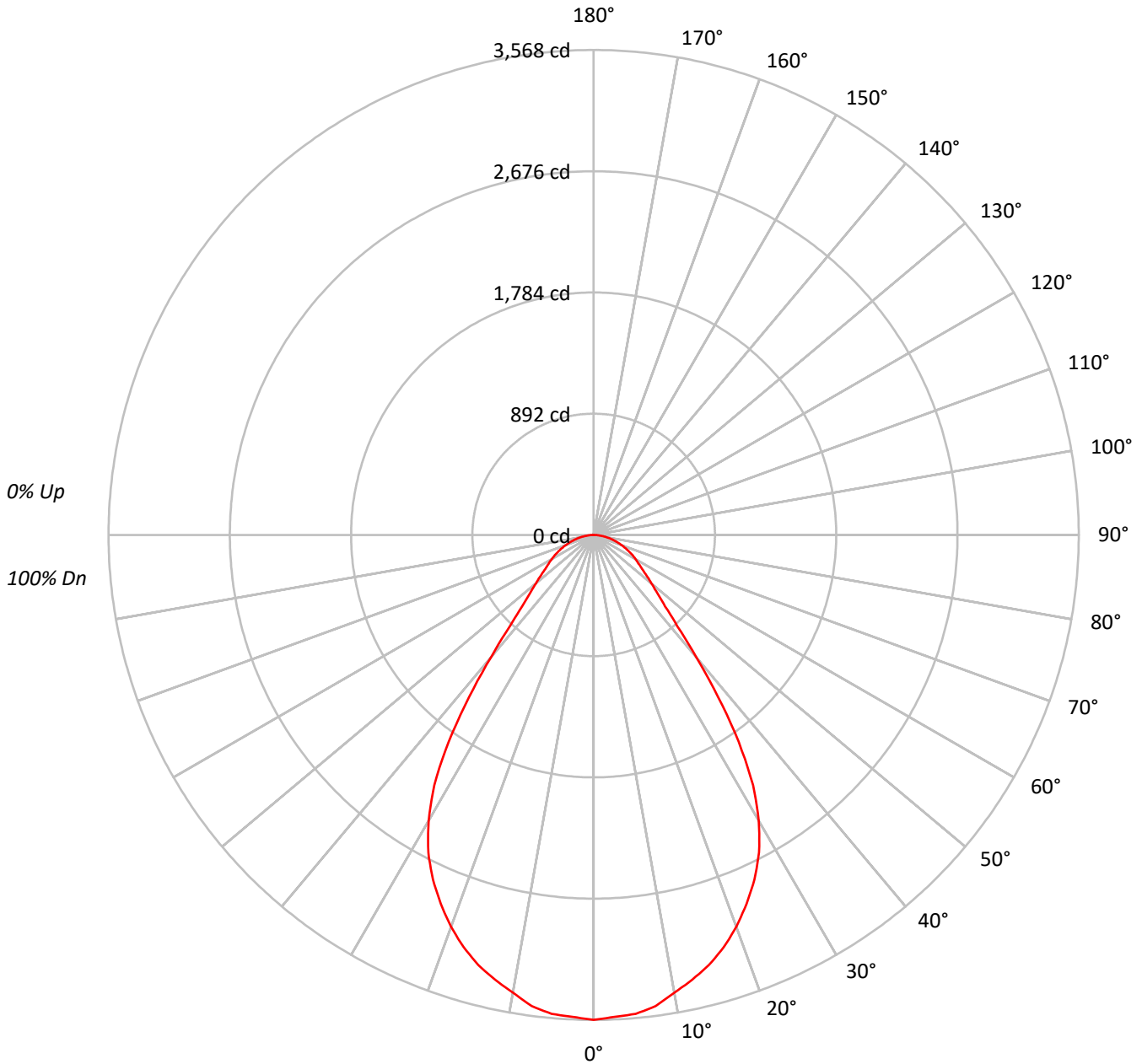
Lumens per Lamp: N/A
Luminaire Lumens: 5164.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593350
CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61NDW

Luminous Intensity Polar Plot





TEST NUMBER: P593350

CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61NDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195593
5°	194673
10°	190372
15°	185909
20°	178918
25°	169207
30°	153770
35°	124477
40°	83936
45°	57673
50°	47256
55°	41356
60°	39120
65°	36917
70°	34685
75°	32979
80°	29928
85°	26292



TEST NUMBER: P593350
 CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	6.5
10°-20°	919.9	17.8
20°-30°	1278.0	24.7
30°-40°	1137.9	22.0
40°-50°	604.0	11.7
50°-60°	395.0	7.6
60°-70°	283.1	5.5
70°-80°	164.2	3.2
80°-90°	48.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2531.9	49.0
0°-40°	3669.8	71.1
0°-60°	4668.8	90.4
0°-90°	5164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3568	
5°	3538	334
15°	3276	920
25°	2797	1278
35°	1860	1138
45°	744	604
55°	433	395
65°	285	283
75°	156	164
85°	42	48
90°	0	



TEST NUMBER: P593350
CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3567.9
2.5°	3549.0
5°	3537.6
7.5°	3495.9
10°	3419.9
12.5°	3351.6
15°	3275.7
17.5°	3180.8
20°	3066.9
22.5°	2937.9
25°	2797.4
27.5°	2634.2
30°	2429.2
32.5°	2182.5
35°	1860.0
37.5°	1503.1
40°	1172.9
42.5°	911.0
45°	743.9
47.5°	633.8
50°	554.1
52.5°	489.6
55°	432.7
57.5°	390.9
60°	356.8
62.5°	322.6
65°	284.6
67.5°	250.5
70°	216.4
72.5°	186.0
75°	155.7
77.5°	125.3
80°	94.8
82.5°	68.4
85°	41.8
87.5°	19.0
90°	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)